



TAITIEN

QUARTZ CRYSTAL
CRYSTAL OSCILLATOR
VCXO
VCTCXO/TCXO
OCXO



OUR PERFORMANCE, YOUR REPUTATION

Our Products



OCXO
0.06-200ppb



TCXO
0.1-2ppm



**Crystal Oscillators/
VCXO**
25-100ppm



Crystal Units
10-100ppm

Frequency Stability: ppm > ppb



Marine communication
Aerial radio
Satellite
Femtocell

- **TCXO, VCXO**
- **X'TAL, TCXO**
- **OCXO**
- **TCXO, OCXO**



Car
GPS

- **X'TAL, XO, TCXO**
- **X'TAL, TCXO**



Watch
DSC
Mobile phone

- **Tuning Fork**
- **X'TAL, XO**
- **X'TAL, TCXO**



Personal Computer
Scanner
Satellite TV
Radio
DVD player
FAX
Cordless telephone
ADSL
WiMAX
High Speed Network
Base Station

- **X'TAL, XO**
- **X'TAL, XO**
- **X'TAL, TCXO**
- **X'TAL, TCXO**
- **X'TAL, XO**
- **X'TAL, OCXO, TCXO**
- **X'TAL**
- **X'TAL, XO**
- **TCXO, OCXO**
- **XO, VCXO**
- **VCXO, TCXO, OCXO**

Crystal Units

TYPE	PACKAGE	FREQ. RANGE	FEATURE
HOT XY	 2.5 x 2.0 x 0.55mm Ceramic SMD Package	16MHz~54MHz	<ul style="list-style-type: none"> • Smaller Size • Tight Tolerance
HOT XX	 3.2 x 2.5 x 0.7mm Ceramic SMD Package	12MHz~54MHz	<ul style="list-style-type: none"> • Tight Tolerance
XW	 4.0 x 2.5 x 0.8mm Ceramic SMD Package	12MHz~36.864MHz	<ul style="list-style-type: none"> • Tight Tolerance
XV	 5.0 x 3.2 x 0.9mm Ceramic SMD Package	11MHz~80MHz	<ul style="list-style-type: none"> • Tight Tolerance
XS	 5.0 x 3.2 x 1.3mm Ceramic SMD Package Glass Seal	10MHz~50MHz	<ul style="list-style-type: none"> • Full Ceramic Package
XR	 6.0 x 3.5 x 1.0mm Ceramic SMD Package	8MHz~49MHz	<ul style="list-style-type: none"> • Tight Tolerance
XQ	 8.0 x 4.5 x 1.5mm Ceramic SMD Package Glass Seal	7.3728MHz~70MHz	<ul style="list-style-type: none"> • Full Ceramic Package
XI	 11.1 x 4.68 x 3.51mm Metal Can DIP Package	3.5MHz~80MHz	<ul style="list-style-type: none"> • Standard Footprint • Low Profile For Close PCB Stacking
XJ	 13.0 x 4.85 x 4.2mm Metal Can SMD Package	3.5MHz~80MHz	<ul style="list-style-type: none"> • Metal Can SMD Package

Tuning Fork Crystal Units

TYPE	PACKAGE	FREQ. RANGE	FEATURE
XB	 2.0 x 6.0 mm Through Hole Package	32.768KHz	<ul style="list-style-type: none"> • Watch Crystal
XA	 3.0 x 8.0 mm Through Hole Package	32.768KHz	<ul style="list-style-type: none"> • Watch Crystal
XD	 3.2 x 1.5 x 0.8 mm Ceramic SMD Package	32.768KHz	<ul style="list-style-type: none"> • Watch Crystal

For more details, please visit our website at www.taitien.com

Crystal Oscillators (CMOS/TTL Output)

TYPE	PACKAGE	FREQ. RANGE	OUTPUT	FEATURE
HOT OY	 2.5 x 2.0 x 0.95mm Ceramic SMD Package	1MHz~40MHz	CMOS	<ul style="list-style-type: none"> • Smaller Size • Low Jitter • Low Standby Current
HOT OX	 3.2 x 2.5 x 1.05mm Ceramic SMD Package	1MHz~50MHz	CMOS	<ul style="list-style-type: none"> • Low Jitter • Low Standby Current
OV	 5.0 x 3.2 x 1.2mm Ceramic SMD Package	32.768KHz~125MHz	CMOS / TTL	<ul style="list-style-type: none"> • Low Jitter • Low Standby Current
OC	 7.0 x 5.0 x 1.3mm Ceramic SMD Package	32.768KHz~133MHz	CMOS	<ul style="list-style-type: none"> • Low Jitter • Low Standby Current
OC Multiplier	 7.5 x 5.0 x 1.65mm Ceramic SMD Package	100MHz~200MHz	CMOS	<ul style="list-style-type: none"> • Up To 200MHz
OH	 12.8 x 12.8 x 5.0mm Metal Can DIP Package	1MHz~125MHz	CMOS	<ul style="list-style-type: none"> • High Reliability
OF	 20.4 x 12.8 x 5.0mm Metal Can DIP Package	1MHz~125MHz	CMOS	<ul style="list-style-type: none"> • High Reliability
OF Precision	 20.4 x 12.8 x 7.0mm Metal Can DIP Package	1MHz~70MHz	CMOS	<ul style="list-style-type: none"> • Tight Freq. Stability • High Reliability

Programmable Crystal Oscillators










TYPE	PACKAGE	FREQ. RANGE	OUTPUT	FEATURE
HOT PY	 2.5 x 2.0 x 0.95mm Ceramic SMD Package	1MHz~200MHz	CMOS	<ul style="list-style-type: none"> • Smaller Size • Fast Delivery • Widely Freq. Range • Low Standby Current
HOT PX	 3.2 x 2.5 x 1.05mm Ceramic SMD Package	1MHz~200MHz	CMOS	<ul style="list-style-type: none"> • Fast Delivery • Widely Freq. Range • Low Standby Current

Crystal Oscillators (PECL/LVDS Output)


TYPE	PACKAGE	FREQ. RANGE	OUTPUT	FEATURE
HOT OT	 7.0 x 5.0 x 1.5mm Ceramic SMD Package	19.44MHz~320MHz	PECL / LVDS	<ul style="list-style-type: none"> • Low Jitter • Differential O/P • Up To 320MHz
OT Multiplier	 7.0 x 5.0 x 1.6mm Ceramic SMD Package	100MHz~700MHz	PECL / LVDS	<ul style="list-style-type: none"> • Differential O/P • Up To 700MHz
OK	 14.3 x 8.7 x 4.9mm Metal Cover, FR-4 PCB Based SMD Package	19.44MHz~700MHz	PECL / LVDS	<ul style="list-style-type: none"> • FR-4 PCB Based • Differential O/P • Up To 700MHz

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Voltage Controlled Temperature Compensated Crystal Oscillators

TYPE	PACKAGE	FREQ. RANGE	OUTPUT	FEATURE
NEW TY	 2.5 x 2.0 x 0.8mm Ceramic SMD Package	10MHz~52MHz	Clipped Sine Wave	<ul style="list-style-type: none"> • Smaller Size • Low Power Consumption • VCTCXO Available
HOT TX	 3.2 x 2.5 x 0.9mm Ceramic SMD Package	10MHz~40MHz	Clipped Sine Wave	<ul style="list-style-type: none"> • Low Power Consumption • VCTCXO Available
TV	 5.0 x 3.2 x 1.15mm Ceramic SMD Package	10MHz~40MHz	Clipped Sine Wave	<ul style="list-style-type: none"> • Low Power Consumption • VCTCXO Available
NEW TW	 5.0 x 3.2 x 1.65mm Ceramic SMD Package	10MHz~40MHz	CMOS / Clipped Sine Wave	<ul style="list-style-type: none"> • High Precision For -20°C~+70°C, ±0.1ppm -40°C~+85°C, ±0.28ppm
HOT TS/TC High Precision	 7.0 x 5.0 x 1.85mm Ceramic SMD Package	5MHz~40MHz	CMOS / Clipped Sine Wave	<ul style="list-style-type: none"> • High Precision For -20°C~+70°C, ±0.1ppm -40°C~+85°C, ±0.28ppm
HOT TS Stratum3	 7.0 x 5.0 x 1.85mm Ceramic SMD Package	5MHz~26MHz	CMOS / Clipped Sine Wave	<ul style="list-style-type: none"> • Overall ±4.6ppm Including 20 Years Aging(@-40°C~+85°C)
HOT TC	 7.0 x 5.0 x 1.85mm Ceramic SMD Package	10MHz~40MHz	Clipped Sine Wave	<ul style="list-style-type: none"> • Low Power Consumption • VCTCXO Available
TK	 14.3 x 8.7 x 4.9mm Metal Cover, FR-4 PCB Based SMD Package	5MHz~160MHz	CMOS / Clipped Sine Wave PECL / LVDS	<ul style="list-style-type: none"> • FR-4 PCB Based • Low Current Option • VCTCXO Available
TF	 20.4 x 12.8 x 7.8mm Metal can DIP Package	1.25MHz~40MHz	CMOS / Clipped Sine Wave	<ul style="list-style-type: none"> • Double Sealed • VCTCXO Available
TG	 20 x 13 x 5.7 mm Metal Cover, FR-4 PCB Based SMD Package	50MHz~160MHz	CMOS / PECL / LVDS	<ul style="list-style-type: none"> • FR-4 PCB Based • High Precision for -40°C~+85°C, ±0.28ppm

Voltage Controlled Crystal Oscillators (PECL/LVDS Output)

TYPE	PACKAGE	FREQ. RANGE	OUTPUT	FEATURE
NEW VW	 5.0 x 3.2 x 1.2mm Ceramic SMD Package	60MHz~175MHz	PECL / LVDS	<ul style="list-style-type: none"> • Smaller Size • Tight Symmetry
HOT VT	 7.0 x 5.0 x 1.6mm Ceramic SMD Package	1.5MHz~200MHz	PECL / LVDS	<ul style="list-style-type: none"> • Tight Symmetry • Wide Pulling Range • Low Jitter • Differential O/P
VT Multiplier	 7.0 x 5.0 x 1.6mm Ceramic SMD Package	100MHz~700MHz	PECL / LVDS	<ul style="list-style-type: none"> • Tight Symmetry • Wide Pulling Range • Differential O/P • Up To 700MHz
VK	 14.3 x 9.3 x 5.5mm Metal Cover, FR-4 PCB Based SMD Package	1.5MHz~700MHz	PECL / LVDS	<ul style="list-style-type: none"> • FR-4 PCB Based • Differential O/P • Up To 700MHz

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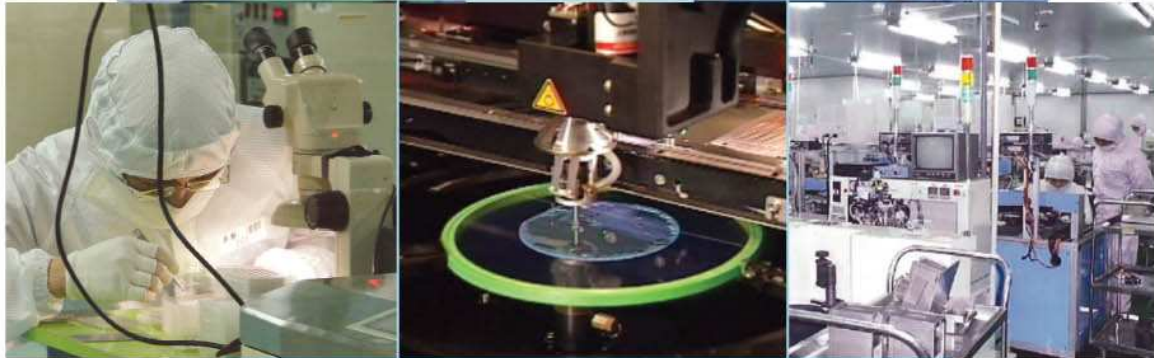
Voltage Controlled Crystal Oscillators (CMOS/TTL Output)

TYPE	PACKAGE	FREQ. RANGE	OUTPUT	FEATURE
NEW VW 	5.0 x 3.2 x 1.2mm Ceramic SMD Package	1.5MHz~80MHz	CMOS	<ul style="list-style-type: none"> • Smaller Size • Tight Symmetry
HOT VT 	7.0 x 5.0 x 1.6mm Ceramic SMD Package	1.5MHz~200MHz	CMOS	<ul style="list-style-type: none"> • Tight Symmetry • Low Jitter
VT Multiplier 	7.0 x 5.0 x 1.6mm Ceramic SMD Package	60MHz~200MHz	CMOS	<ul style="list-style-type: none"> • Tight Symmetry
VH 	12.8 x 12.8 x 5.0mm Metal Can DIP Package	2.5MHz~45MHz	CMOS/TTL	<ul style="list-style-type: none"> • Tight Symmetry • Good Linearity
VF 	20.4 x 12.8 x 7.8mm Metal Can DIP Package	2.5MHz~45MHz	CMOS/TTL	<ul style="list-style-type: none"> • Tight Symmetry • Good Linearity

Oven Controlled Crystal Oscillators

TYPE	PACKAGE	FREQ. RANGE	OUTPUT	FEATURE
NK 	14.3x9.3x9.65mm Metal Can SMD Package	5MHz~40MHz	CMOS	<ul style="list-style-type: none"> • AT-Cut Crystal • Low Power Consumption • Overall ± 4.6ppm Including 10 Years Aging • Fast Warm-Up
HOT NF 	20.4 x 12.8 x 11.0mm Metal Can DIP Package	5MHz~40MHz	CMOS	<ul style="list-style-type: none"> • AT-Cut Crystal • Standard DIP 14 Pin • Overall ± 4.6ppm Including 10 Years Aging • Fast Warm-Up
HOT NA 	25.4 x 25.4 x 15.0mm Metal Can DIP Package	5MHz~100MHz	CMOS / Sine Wave	<ul style="list-style-type: none"> • SC-CUT Crystal • High Stability • Low Phase Noise • Fast Warm-Up
HOT NJ 	25.4 x 22.1 x 15.3mm Metal Can SMD Package	5MHz~100MHz	CMOS / Sine Wave	<ul style="list-style-type: none"> • SC-CUT Crystal • High Stability • Low Phase Noise • Fast Warm-Up
NI 	36.3 x 27.2 x 19.1mm Metal Can DIP Package	5MHz~100MHz	CMOS / Sine Wave	<ul style="list-style-type: none"> • SC-CUT Crystal • High Stability • Stratum 3E/2 • Up To -110dBc @ 1Hz • Fast Warm-Up
NB 	50.8 x 50.8 x 26.2mm Metal Can DIP Package	5MHz~100MHz	CMOS / Sine Wave	<ul style="list-style-type: none"> • SC-CUT Crystal • Stratum 3E/2 • High Stability • Up To -110dBc @ 1Hz • Fast Warm-Up

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Maintain sustainable competitive advantage from the satisfaction of customers, shareholders and employees

Taitien Electronics, a quartz frequency control component manufacturer, started its first production run of Tuning Fork Crystal in 1976. Our main products include X'TAL, OSC, VCXO, TCXO, and is the only manufacturer in Taiwan that provides the technique of OCXO. Our complete product line enables one-stop purchase service.

Our missions are:

- 1 Provide our customer with quality Frequency Control Products at competitive price.
- 2 Create knowledge from the integration of information technology and educational training.
- 3 Maintain our quality through continuous improvement; challenge the goal of zero defects.
- 4 Focus product innovation on our core technology.
- 5 To be a world-class Frequency Control Products manufacturer, building network of strategic alliances with quality resources to maintain our market competitiveness.



TAITIEN

TAITIEN ELECTRONICS CO., LTD

5F., No.76, Po Ai Road, Taipei 100, Taiwan, R.O.C.
Tel: +886-2-2381-1183 Fax: +886-2-2361-7529

HEAD OF SALES OFFICE

No.5, Shutan Street, Shulin City, Taipei 238, Taiwan, R.O.C.
Tel: +886-2-2686-1287 Fax: +886-2-2681-9610

TAITIEN ELECTRONICS (SHENZHEN) CO., LTD. South China Office

7F., Block 2.Nanyou Tian'an Industrial Estate, Shenzhen
Guangdong China 518054
Tel: +86-755-2652-1660 Fax: +86-755-2652-2767

TAITIEN ELECTRONICS (NANJING) CO., LTD. East China Office

JiangNing Economic & Technology Development Zone,
No.18 Chi-Tian Road, Nanjing JiangSu, China 211100
Tel: +86-025-5210-8713 Fax: +86-025-5210-8714

TAITIEN USA INC.

43220 Christy Street, Fremont CA 94538 U.S.A
Tel: +1-510-252-0686 Fax: +1-510-252-0148

ISOTEMP RESEARCH, INC.

1750 Broadway Street, Charlottesville VA 22902 U.S.A
Tel: +1-434-295-3101 Fax: +1-434-977-1849

Web site: www.taitien.com
E-mail: sales@taitien.com.tw

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